

## CLAIM AMENDMENTS

1 -- 10. (canceled)

11. (new) In combination with a thermally stressed component, a heat-insulating layer bonded to a surface of the component and having a perovskite structure of the general formula

$A_{1+x}(B'_{1/3+x}B''_{2/3+y})O_3$  in which:

A = at least one element of the group (Ba, Sr, Ca, Be),

B' = at least one element of the group (Mg, Ca, Sr, Ba),

B'' = at least one element of the group (Ta, Nb), and

$-0.1 < r, x, y, z < 0.1$ .

12. (new) The combination defined in claim 11 wherein the heat-insulating layer has a composition of the formula  $Ba(Mg_{1/3}Ta_{2/3})O_3$ .

13. (new) The combination defined in claim 11, further comprising between the surface of the component and the heat-insulating layer:

a first intermediate layer of ceramic glass or metallic material.

1                   14. (new) The combination defined in claim 13, further  
2 comprising between the surface of the component and the heat-  
3 insulating layer:

4                   a second intermediate layer of a MCrAlY alloy where M =  
5 Co, Ni being the material for the first intermediate layer.

1                   15. (new) A method of protecting a thermally stressed  
2 component, the method comprising applying to a surface of the  
3 component a heat-insulating layer having a perovskite structure of  
4 the general formula  $A_{1+x}(B'_{1/3+x} B''_{2/3+y})O_3$  in which:

5                   A = at least one element of the group (Ba, Sr, Ca, Be),

6                   B' = at least one element of the group (Mg, Ca, Sr, Ba),

7                   B'' = at least one element of the group (Ta, Nb), and

8                    $-0.1 < r, x, y, z < 0.1$ .